



# CITY OF SAN DIEGO

PURCHASING DIVISION  
1200 Third Avenue, Suite 200  
San Diego, CA 92101-4195

Bid No. 6608-05-W

## REQUEST FOR BID

Bid Opening Date: July 22, 2004  
@ 2:30 p.m.

Subject: Furnish the City of San Diego with **CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM AT PUMP STATION NO. 2**,  
in accordance with the attached specifications.

---

Company _____	Name _____ [PRINT OR TYPE]
Federal Tax I.D. No. _____	Signature* _____
Street Address _____	Title _____
City _____	Date _____
State _____ Zip Code _____	
Tel. No. _____ Fax No. _____	<i>*Authorized Signature: The signer declares under penalty of perjury that she/he is authorized to sign this document and bind the company or organization to the terms of this agreement.</i>
E-Mail _____	

---

**This cover page must be completed and submitted as part of your bid.**

If your firm is not located in California, are you authorized to collect California sales tax? ☐ YES ☐ NO

If YES, under what Permit # \_\_\_\_\_

Cash discount terms \_\_\_\_\_ % \_\_\_\_\_ days.  
[Terms of less than 20 days will be considered as Net 30 for bid evaluation purposes.]

State delivery time required: \_\_\_\_\_ days after receipt of order.

The following addenda are acknowledged and incorporated in this submittal: \_\_\_\_\_

### FOR FURTHER INFORMATION CONCERNING THIS BID

**WAYDE HELDIBRIDGE/b19**, Procurement Specialist

Phone: (619) 236-6257 Facsimile: (619) 533-3232

E-mail: [WHeldibridge@san Diego.gov](mailto:WHeldibridge@san Diego.gov)

## TABLE OF CONTENTS

I. Pricing Page .....	4
II. Terms And Conditions.....	5
A. Pricing.....	5
B. Award.....	5
C. Award Notification .....	5
D. Mandatory Pre-Bid Conference And Site Inspection .....	5
E. Submittals .....	5
F. Insurance Requirements.....	7
G. Indemnification And Hold Harmless Agreement .....	8
H. Equals Clause.....	8
I. References/Qualifications .....	8
J. General Provisions .....	9
K. Addenda .....	9
L. Exceptions.....	9
M. Bid Results .....	10
N. Request For Taxpayer Identification Number .....	10
O. Audit And Inspection Of Records.....	10
P. Assignment Of Contract .....	10
Q. Drug-Free Workplace Policy .....	10
R. Americans With Disabilities Act .....	11
S. Equal Employment Opportunity .....	11
T. Nondiscrimination In Contracting .....	12
III. Specifications For Closed Circuit Television (Cctv) System At Pump Station No. 2.....	13
A. General Requirments .....	13
B. Location Of Facility.....	13
C. Shop Drawings And Samples .....	13
D. Owner's Manual.....	14
E. Local Facility .....	14
F. Field Testing .....	14
G. Product Delivery, Storage, And Handling .....	15
H. Training.....	15
I. Indoor/Outdoor Cameras And Lenses .....	16
J. Backward Compatibility With Mpc-M-100/104/105 Master Controller (Pelco) Or Equal .....	17
K. Camera Mount .....	17
L. Sun Shield .....	18
M. Receiver/Driver Units .....	18
N. Fiber Optic Links .....	18
O. Fiber Optic Equipment Racks.....	18
P. Matrix Switcher .....	18
Q. Video Multipliers .....	19
R. Control Distribution Unit.....	19

**TABLE OF CONTENTS (cont.)**

S.	Matrix Card Cage.....	19
T.	Time Lapse Digital Video Recorders With Time/Date Generator .....	20
U.	Monitors.....	21
V.	Wire And Cable .....	21
W.	Coax Cable.....	21
X.	Fiber Optic Cables .....	22
Y.	Fiber Optic Terminal Connectors .....	23
Z.	Patch Panels .....	24
AA.	Splice Closures.....	24
BB.	Master Control Panel .....	25
CC.	Installation.....	27
DD.	Identification .....	29
EE.	Physical Checkout Field And Functional Testing .....	29
FF.	Waranty.....	30
 Forms		
	Bidder's References.....	31
	Bidder's Statement of Subcontractors .....	32
	Bidder's Statement of Available Equipment .....	33
	Bidder's Statement of Financial Responsibility .....	34
	Certification Survey .....	35

**I. PRICING PAGE**

Section 1: Pricing for Closed Circuit Television (CCTV) Systems and Installation

Est. Qty.	U/M	Description	Unit Cost
1	EA	Furnish and Install Closed Circuit Television (CCTV) System at Pump Station No. 2, in accordance with specifications.	\$

Section 2: Optional Pricing for Installation of Fiber Optic

U/M	Description	Unit Cost
EA	Install Fiber Optic at Pump Station No. 2, in accordance with specifications. This information will not be included in the award evaluation.	\$

## II. TERMS AND CONDITIONS

### A. PRICING

Pricing shall include all equipment, accessories, materials, labor, transportation, overhead, taxes, profit, and any and all other expenses related to the work specified herein. Additionally, price shall include any incidental accessories necessary to make the work complete and perfect in all respect even if not particularly specified.

### B. AWARD

This bid shall be awarded to the lowest responsive, responsible Bidder whose bid conforms to the solicitation and is considered to be most advantageous to the City, price and other factors considered. Factors to be considered may include, but are not limited to Bidder's qualifications, experience performing work of comparable size and scope, references, equipment, the operational requirements of the City, and any other factors which are in the City's best interest. Section 2 of the Pricing Page will not be included in the award evaluation.

### C. AWARD NOTIFICATION

The City will notify all Bidders, in writing, of its intent to award the bid.

### D. MANDATORY PRE-BID CONFERENCE AND SITE INSPECTION

All Bidders must attend the pre-bid conference and site inspection of the proposed site. The pre-bid conference will be held at the Pump Station No. 2, 4077 North Harbor Drive, San Diego, CA 92101-1033, on July 7, 2004 at 10 a.m. Bidders will meet at Guard Station. The site inspection will be scheduled in conjunction with the pre-bid conference.

Bids will not be accepted from Bidders who do not attend the mandatory pre-bid conference and site inspection, nor from Bidders who arrive after the pre-bid conference has started.

For further information contact Daniel Barragan, Contract Administrator, at (858) 654-4446. Allow two (2) hours for the pre-bid conference and site inspection.

### E. SUBMITTALS

#### 1. BID SUBMITTAL

Bids must be returned in a sealed envelope to the Purchasing Division, 1200 Third Avenue, Suite 200, San Diego, CA 92101. The bid number and opening date/time must be referenced on the outside of the envelope (lower left corner). Bids must be received by the Purchasing Reception Desk prior to bid opening at 2:30 p.m. on bid opening date. **Faxed bids will not be accepted.**

2. SUBMITTALS REQUIRED WITH BID

**Failure to provide the required submittals with the bid may be cause for the bid to be rejected as non-responsive.**

- a. Bidder's References (as specified in Section II, paragraph I).
- b. Bidder's Statement of Subcontractors (as specified in Section II, paragraph I).
- c. Bidder's Statement of Available Equipment (as specified in Section II, paragraph I).
- d. Bidder's Statement of Financial Responsibility (as specified in Section II, paragraph I).
- e. Certification Survey (use form on page 35).

3. SUBMITTALS REQUIRED UPON PROVISIONAL AWARD

**Failure to provide the following documentation within the time period specified may be cause for the provisional award to be voided and the bid to be rejected as non-responsive.**

- a. Insurance requirements as specified in Section II, paragraph F.
- b. Taxpayer Identification Number (W-9) as specified in Section II, paragraph N, if not currently on file.
- c. System Schematic Drawing (as specified in Section III, paragraph C, item 1).
- d. Manufacturer Equipment Data Sheets (as specified in Section III, paragraph C, item 2).
- e. Complete Bill of Material List (as specified in Section III, paragraph C, item 3).
- f. Plans showing locations of components (as specified in Section III, paragraph C, item 4).
- g. Field-installed Wiring Diagrams (as specified in Section III, paragraph C, item 5).
- h. Manufacturer's Instructions (as specified in Section III, paragraph C, item 6).
- i. Manufacturer's Certificate of Compliance (as specified in Section III, paragraph C, item 7).
- j. Shop Drawings (as specified in Section III, paragraph C, item 8).

4. SUBMITTALS REQUIRED PRIOR TO ACCEPTANCE BY THE CITY

- Owner's Manual (as specified in Section III, paragraph D).

F. INSURANCE REQUIREMENTS

All required insurance shall be submitted to Purchasing within ten (10) days of provisional award. **Failure to provide the insurance certificates within the time frame specified by the City shall be cause for the bid to be rejected as non-responsive.** Insurance shall be maintained by the Contractor in full force and effect during the entire period of performance under contract. Failure to do so shall be cause for termination of the contract.

All policies must have a **thirty (30) day non-cancellation clause** giving the City thirty (30) days prior written notice in the event a policy is canceled.

At the end of each contract year, the City reserves the right to review insurance requirements and to require more or less coverage depending upon assessment of the risk, the Vendor's past experience, and the availability and affordability of increased liability insurance coverage.

**Insurance coverage must be from an insurance carrier licensed in the State of California and rated "A" or better by the A.M. Best Key Rating Guide.**

The following coverage is required:

- Commercial General Liability for a minimum of one million dollars each occurrence (\$1,000,000.00 EO). **The City Of San Diego must be named as an additional insured on the certificate.**
- Automobile Liability for a minimum of one million dollars combined single limit (\$1,000,000.00 CSL). **The City Of San Diego must be named as an additional insured on the certificate.**
- Workers' Compensation coverage in accordance with the laws of the state of california. **Policy must contain a waiver of subrogation of rights against the City Of San Diego.**
- Product Liability for a minimum of one million dollars combined single limit (\$1,000,000.00 CSL). Such policy shall be provided to the City Of San Diego from the manufacturer of the equipment and/or goods to be provided by the contractor. The contractor shall be responsible for notifying the manufacturer of this requirement and for ensuring timely submittal.

**G. INDEMNIFICATION AND HOLD HARMLESS AGREEMENT**

To the fullest extent permitted by law, the Contractor agrees to defend, indemnify, protect, and hold City and its agents, officers, and employees harmless from and against any and all claims asserted or liability established for damages or injuries to any person or property, including injury to City's or Contractor's employees, agents, or officers which arise from, or are connected with, or are caused, or claimed to be caused by the acts, or omissions of Contractor and its agents, officers, or employees in performing, providing, manufacturing, or supplying the work, services, product, or equipment relating to this bid, and all expenses of investigating and defending against same; provided, however, that Contractor's duty to indemnify and hold harmless shall not include any claims or liability arising from the established sole negligence or willful misconduct of the City, its agents, officers, or employees.

Notwithstanding anything herein to the contrary, the services provided under this contract will not give rise to, nor will be deemed or construed so as to confer any rights on any other party as a third party beneficiary or otherwise.

**H. EQUALS CLAUSE**

Whenever reference to a specific brand name is made in these specifications, it is illustrative and to be construed as a specification which describes a component that has been tested or evaluated by the City as best meeting specific operational, design, performance, maintenance, quality, and reliability standards and requirements of the City, thereby incorporating these requirements by reference within the specification. An equivalent ("or equal") may be offered by the Bidder, subject to testing or evaluation by the City prior to award of bid. The City shall be the sole judge of whether any proposed item will fulfill its requirements. It shall be the sole responsibility of the Bidder to provide, at Bidder's expense, any product information, test data, and other information or documents the City may require to fully evaluate or demonstrate the acceptability of the offered substitute. Where appropriate, independent testing or evaluation (including destructive testing) may be required as a condition of acceptance at a qualified test facility at the Bidder's expense.

**I. REFERENCES/QUALIFICATIONS**

Bidders are required to demonstrate successful performance for work of similar size and scope as specified in this contract during the past three (3) years. Bidders must also demonstrate that they are properly equipped to perform the work as specified in this contract.



**To enable the City to evaluate the responsibility, experience, skill, and business standing of the Bidder, the following documents must be included with the bid submittal:**

1. Bidder's References (use form on page 31).
2. Bidder's Statement of Subcontractors (as specified in Section 32).
3. Bidder's Statement of Available Equipment (use form on page 33).
4. Bidder's Statement of Financial Responsibility (use form on page 34).

**J. GENERAL PROVISIONS**

Except as otherwise specified herein, the City of San Diego General Provisions, dated September 12, 2001, (on file in the Office of the Purchasing Agent) are incorporated as part of this bid/proposal and any resulting contract by reference. The General Provisions are available online at [www.sandiego.gov/purchasing](http://www.sandiego.gov/purchasing) or via request from the Purchasing Division by calling (619) 236-6000.

By signing and/or authorizing the bid submittal, the Bidder/Proposer acknowledges that they have read and understood the meaning, intent and requirements of said General Provisions; and acknowledge said General Provisions are included as a part of this bid/proposal.

In the event of any conflict between the City of San Diego General Provisions and the terms and conditions included in this bid/proposal, the terms and conditions of this bid/proposal shall prevail.

**K. ADDENDA**

It is the Bidders' responsibility to ensure that all addenda issued are incorporated in their bid submittal.

Failure to acknowledge and incorporate addenda will not relieve the Bidder of the responsibility to meet all terms and conditions of the specifications for price bid.

**L. EXCEPTIONS**

If a Bidder/Proposer takes any exception to any part of these specifications as written, or as amended by any Addenda subsequently issued, or the General Provisions, they must do so in writing. Said exceptions must be submitted with the bid/proposal. Failure to do so will be construed as acceptance of all provisions of the specifications and General Provisions.

M. BID RESULTS

Bid results **will not** be given out over the phone. To obtain bid results, either (1) attend the bid opening or (2) provide a self-addressed stamped envelope referencing the bid number. Envelopes may be submitted with the bid, or mailed directly to the Purchasing Division. They will be kept on file until the bid opens and the extensions are verified. Bid tabulations will generally be mailed to requester within **three (3) working days** after the bid opening to review bid tabulation.

N. REQUEST FOR TAXPAYER IDENTIFICATION NUMBER

I.R.S. regulations require the City of San Diego to have the correct name, address, and Taxpayer Identification Number (TIN) or Social Security Number (SSN) on file for businesses or persons who provide services or products to the City of San Diego. This information is necessary to complete Form 1099 at the end of each tax year.

In order to comply with I.R.S. regulations, the City of San Diego requires each Vendor to provide a Form W-9 prior to award of contract. Failure to provide a completed Form W-9 within three (3) business days of the City's request may result in a bid being declared non-responsive and rejected.

O. AUDIT AND INSPECTION OF RECORDS

The Contractor, and any Subcontractors, shall make available upon request all records which in the opinion of the City Auditor are necessary to conduct an audit of this contract. Such records may include invoices, materials, payrolls, personnel records, and other data relating to all matters covered by this contract. The Contractor and Subcontractors shall retain such data and records for a period of not less than three (3) years following receipt of final payment. The Contractor shall make available all requested data and records at reasonable locations within the City or County of San Diego, at any time during normal business hours, and as often as the City deems necessary. If records are not made available within the City or County of San Diego, the Contractor shall pay the City's travel costs to the location where the records are maintained. Failure to make requested records available for audit by the date requested will result in immediate termination of contract.

P. ASSIGNMENT OF CONTRACT

Contractor shall not assign this contract or any right or interest hereunder, without prior written consent of the City.

Q. DRUG-FREE WORKPLACE POLICY

All City projects are subject to City of San Diego Council Policy No. 100-17, Drug-Free Workplace. This policy requires that all City construction contractors, consultants, grantees, and providers of non-professional services provide a drug-free workplace in accordance with the provisions contained therein.

The Drug-Free Workplace Policy is available online at [www.sandiego.gov/purchasing](http://www.sandiego.gov/purchasing) or via request from the Purchasing Division by calling (619) 236-6000.

By signing and/or authorizing the bid submittal, the Bidder/Proposer acknowledges that they have read and understood the meaning, intent, and requirements of said policy; acknowledge said policy is incorporated as part of this bid/proposal; certify that they have a drug-free workplace program in place that complies with said policy; and that Subcontractor agreements for this bid/proposal contain language which indicates the Subcontractor's agreement to comply with this policy.

R. AMERICANS WITH DISABILITIES ACT

Every person or organization awarded a contract, lease, or grant by the City of San Diego acknowledges and agrees that they are aware of and will comply with Council Policy 100-04, adopted by Resolution No. 282153 relating to the federally mandated Americans with Disabilities Act (ADA). Contractors and Subcontractors will be individually responsible for their own ADA program.

In compliance with Council Policy 000-03, adopted by Resolution No. 279130, sign language or oral interpreting services are available at pre-bid meetings and bid openings with a five (5) business day notice to Purchasing at (619) 236-6000 or email at [Purchasing@sandiego.gov](mailto:Purchasing@sandiego.gov).

S. EQUAL EMPLOYMENT OPPORTUNITY

Contractor shall not discriminate against any employee or applicant for employment on any basis prohibited by law. Contractor shall provide equal opportunity in all employment practices. Contractor shall also ensure that their Subcontractors comply with the City's Equal Employment Opportunity Program. Contractor agrees to be bound by the City Of San Diego Equal Opportunity Ordinance (Municipal Code Chapter II, Article 2, Division 27).

Contractor shall submit a Work Force Report or an Equal Employment Opportunity Plan, within five (5) days of being notified by the Purchasing Division.

For questions regarding the City's Equal Employment Opportunity Program, contact the Equal Opportunity Contracting Office at (619) 533-4464.

T. NONDISCRIMINATION IN CONTRACTING

Contractor shall not discriminate on the basis of race, gender, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring or treatment of Subcontractors, Vendors or Suppliers. Contractor shall provide equal opportunity for Subcontractors to participate in subcontracting opportunities. Contractor understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in contract termination, debarment, or other sanctions. This language shall also be included in construction contracts between the contractor and any Subcontractors, Vendors, and Suppliers.

As part of its bid proposal, Bidder shall provide to the City a list of all instances within the past ten (10) years where a complaint was filed or pending against Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, Subcontractors, Vendors, or Suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

Upon the City's request, Contractor agrees to provide to the City, within sixty (60) calendar days, a truthful and complete list of names of all Subcontractors, Vendors, and Suppliers that Contractor has used in the past five (5) years on any of its contracts that were undertaken within San Diego County, including the total dollar amount paid by contractor for each subcontract or supply contract. Contractor further agrees to fully cooperate in any investigation conducted by the City pursuant to the City's Nondiscrimination in Contracting Ordinance (Municipal Code Sections 22.3401 - 22.3417). Contractor understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in remedies being ordered against the contractor up to and including contract termination, debarment, and other sanctions for violation of the provisions of the Nondiscrimination in Contracting Ordinance. Contractor further understands and agrees that the procedures, remedies, and sanctions provided for in the Nondiscrimination Ordinance apply only to violations of said Nondiscrimination Ordinance.

For questions regarding the City's Nondiscrimination in Contracting Ordinance, contact the Equal Opportunity Contracting Office at (619) 533-4464.

### **III. SPECIFICATIONS FOR CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM AT PUMP STATION NO. 2**

#### **A. GENERAL REQUIREMENTS**

Bidder shall furnish and install Complete Closed Circuit Television (CCTV) System, including all required equipment, accessories, transformers, video and remote cable, interconnecting and conduit. All wiring shall be UL listed. CCTV system shall monitor all interior cameras, exterior surroundings, main entryway, pump station mezzanine levels, and pump station lower level perimeter as specified.

Contractor shall coordinate with the Control Systems Provider to ensure that the CCTV signal gets incorporated into the Communication Center (COMC) at Metropolitan Operations Center II, and Pump Station No. 2, in order for the CCTV signal to be viewed directly on a workstation monitor, and through COMC. The Contractor shall be required to perform all systems integration and obtain any required permits.

#### **B. LOCATION OF FACILITY**

Pump Station 2  
4077 North Harbor Drive  
San Diego, CA 92101-1033

#### **C. SHOP DRAWINGS AND SAMPLES**

The Bidders shall submit the following in compliance with Program Guidelines for Design Consultant, Drafting Standards and CADD Guidelines of the Clean Water Program upon provisional award.

1. System Schematic drawing including the master controller, monitors, recorders, cameras, and the data highway; point-to-point connection diagrams showing cable types and device terminal numbers.
2. Manufacturer's Equipment Data Sheets with Manufacturer's name and catalog number for each component, including sufficient data to indicate compliance with the specifications. Data sheet shall also include physical dimensions, mounting and installation details, wiring connections, and indicate all options and special features.
3. A complete and detailed bill of material list including all associated devices by quantity and part number.

4. Plans showing locations of components.
5. Wiring diagrams showing terminal identification for field-installed wiring.
6. Manufacturer's instructions.
7. Manufacturer's certificate that the system complies with indicated requirements.
8. Shop drawings copies shall be submitted in a standard size D sheet, and 1/2 size sheets. All drawings must meet MWWD CADD Standards, and must be in Microstation V8 format.

D. OWNER'S MANUAL

The Owner's Manual shall be submitted to the Contract Administrator prior to acceptance by the City. The following shall be included in the Owner's Manual:

1. Instructions for operation of CCTV system and software.
2. Manufacturer's maintenance procedures.
3. Circuit diagnosis of CCTV system.
4. Wiring designation schedule for major components including camera.
5. List of replacement parts.
6. List of authorized service centers.
7. Wiring diagrams showing terminal identification for field-installed wiring.
8. Identification of color coding used in system wiring.

E. LOCAL FACILITY

The Contractor shall have a local authorized service agency to service system. In the event the City requests Contractor to correct trouble which develops with the system, Contractor shall respond to and complete repairs within twenty-four (24) hours from time of the trouble call. All calls from the City shall be returned within one (1) business day.

F. FIELD TESTING

Closed Circuit Television (CCTV) System shall be field-tested for compliance with the indicated requirements. Testing shall be for a period of thirty (30) working days.

1. Acceptance

Testing shall demonstrate that CCTV system performance is satisfactory for lighting encountered during day and night time operation, for a period of thirty (30) working days before acceptance of system.

2. Sealing/Locking

At completion of testing, adjustments shall be locked or sealed.

3. Witnesses

The Contract Administrator and Pump Station Operators reserve the right to witness field tests to certify quality of equipment.

4. Field Test

Field test will start after installation is 100% complete, and a written request from the Contractor to start the test is approved by the City.

G. PRODUCT DELIVERY, STORAGE, AND HANDLING

1. Delivery of Materials

Products shall be delivered FOB Destination in original, unbroken packages, containers, or bundles bearing the name of the Manufacturer and Product Number to the following site:

Pump Station No. 2, 4077 North Harbor Drive, San Diego, CA 92101-1033

2. Storage

Products shall be carefully stored at Pump Station 2, in a manner that will prevent damage and in an area that is protected from the elements. The Contractor is responsible for all material and equipment until it is installed and properly mounted.

H. TRAINING

The Contractor shall provide training of City personnel in the skills required for each classification for the duration indicated. Training shall be spread over a number of days to train all shifts. Each of the classifications will be instructed individually, and no more than six (6) hours of training will be scheduled in one (1) day. Durations of training is as follows:

1. Electronics Technicians - Four (4) hours.
2. Pump Station Operators - Four (4) hours.
3. Pump Station General Staff (Supervisors) - Three (3) hours.

I. INDOOR/OUTDOOR CAMERAS AND LENSES

1. The Contractor shall provide and install a total of nineteen (19) cameras as described herein. The camera shall be Cohu, Pelco or equal.
2. Cameras suitable for the particular operating environment shall be selected. Cameras shall have a sensitivity and spectral response compatible with both daylight conditions and night time lighting. Cameras should meet the following minimum specifications, and additional requirements may be identified in project specific design criteria:
  - a. NTSC/PAL Resolution no less than 460/470 T.V. Lines.
  - b. NTSC/EIA Sensitivity 35 IRE, not to exceed .03 LUX (Monochrome), and .8 LUX (Color cameras).
  - c. NTSC/PAL Effective Pixels 724(H) X 494(V)/724(H) X 758(V).
  - d. PTZ (pan, tilt, zoom), pan speed no less than 20° per second, including dual speed drives, and be capable of 360° rotation.
  - e. Zoom 22X Optical, 10X Electronic.
  - f. Operating Voltage: 89VAC to 135VAC, 120VAC Nominal 50/60 Hz (±3.0 Hz) National Electrical Manufacturers Association (NEMA) standard TS-2 (1998) for traffic control system. 2.1.2
  - g. Primary Input Power Interruption: It is defined in section 2.1.4 “Power Interruption” NEMA standard TS-2 (1998).
  - h. Transients Power Service: The CCTV field equipment shall meet the requirements of section 2.1.6 “Transients, Power Service” of the NEMA standard TS-2 (1998).
  - i. Flash Memory: Update firmware and new features via serial communication.
  - j. Ambient Temperature Limits (Operating): -34°C to 74°C (-30°F to 165°F) NEMA 2.1.5.1 Standard TS-2 (1998).
  - k. Outdoor cameras shall be sealed and certified for outdoor use.
  - l. All cameras shall be sealed and pressurized with dry Nitrogen.



J. BACKWARD COMPATIBILITY WITH MPC-M-100/104/105 MASTER CONTROLLER (PELCO) OR EQUAL

The dome shall be compatible with existing MPC Masters, providing the following control:

1. Address Selection: Same on dome.
2. Camera Power ON/OFF: No effect on dome.
3. Auto/Manual Iris Select: Same on dome.
4. Fast/Slow: Provides two (2) speeds for zoom.
5. Auto/Manual Color Balance Select: Auto/Manual Shutter Select on dome.
6. Blue: Increases shutter from 1/4, 1/8, 1/15, 1/30, 1/60 timing each step
7. Red: Decreases shutter from 1/60, 1/30, 1/15, 1/8, 1/4 timing each step
8. Zoom: Same on dome.
9. Focus: Focus control if in manual focus. No effect if in auto focus.
10. Iris: Iris control if in manual iris. No effect if in auto iris.
11. Pan/Tilt: Controls pan and tilt direction. Speed of pan and tilt is determined by Fast/Slow mode selection and by optical zoom position of lens, so that the narrower the field of view, the slower the pan and tilt speed. In the fast mode, the pan speed shall be adjusted to provide approximately 1-1/2 to 2-1/2 fields of view per second. In the slow mode the pan speed shall be adjusted to provide approximately 1/2 to 1 field of view per second. The tilt speed shall be adjusted to remain proportional to the pan speed.
12. Presets: Allows presets one (1) through ten (10) to set or recalled. Selecting presets one (1) through ten (10) shall control presets thirty-three (33) through forty-two (42) stored in dome.

K. CAMERA MOUNT

1. The cameras shall be mounted on a mounting bracket designed to be secured to a pole and/or wall. Construction shall be die cast aluminium. Camera mount shall have a minimum load rating of 20 lbs. and shall be furnished with all pertinent hardware for mounting as shown on the drawings.
2. The camera mount shall be PELCO EM1450 or equal.

L. SUN SHIELD

The outdoor cameras shall be designed and equipped for outdoor applications including sun shields. The sun shield shall be PELCO 3512MT Outdoor Camera Mount or equal.

M. RECEIVER/DRIVER UNITS

The receiver/driver unit located at the COMC room shall be a weather-proof unit (NEMA 4X rated enclosure) capable of operating in a temperature range of -40°C to +60°C and be located at each camera. The receiver/driver units shall receive data from the master control panel; decode the command data; perform error checking; and act on the valid data to drive the camera, lens, and pan and tilt unit, and auxiliary functions as required. Provide preset position drive for pan, tilt, zoom, and focus functions to support ten (10) preset positions. If communications are interrupted from master control panel to receiver/driver, camera shall be configurable to remain in the current position or move to a preset position. The receiver/driver shall include an internal, regulated power supply, and supply power to camera and pan/tilt unit. The receiver/driver shall be protected from power brownouts, current surges or voltage spikes of up to 1,000 V. The receiver/driver shall be PELCO MCS Series or equal.

N. FIBER OPTIC LINKS

Contractor shall provide fiber optic links (transmitter/receiver pairs) configured to allow for bi-directional exchange of data and video over a single optical fiber (62.5 micron), as specified for system operation. DB losses from fiber optic cable and splices shall be calculated and proper transmitter/receiver pairs shall be selected to accommodate loss budget. Contractor shall provide required adaptor for AC system operation. Fiber optic transceivers shall be Fiber Option – 112V series or equal and 243D series or equal.

O. FIBER OPTIC EQUIPMENT RACKS

Fiber optic equipment racks shall be 19". The racks shall have sufficient rack space plus 25 % for future expansion. The racks shall be provided with vents on the top and sides. The rack shall be front locking type with an adequate number of surge protected duplex outlets, permanently installed on the racks and shall be Fiber Options – 517R and 517EPS or equal.

P. MATRIX SWITCHER

The matrix switcher shall be a micro processor-based video switching system that automatically routes video signals from a requested camera position to a specified monitor. The matrix switcher shall be furnished with a mother board, a video amplifier board, and a power supply. The video switcher shall have the capability to control one hundred twenty-eight (128) cameras, eight (8) monitor outputs and eight (8) expander inputs. The matrix switcher shall be manufactured as follows:

1. VICON V4481SCC-HD (COHU NO. V8x8-ICPS) or equal.
2. PELCO – CM9740 Matrix Switcher/Controller or equal.

Q. VIDEO MULTIPLIERS

Contractor shall provide one (1), 16-32 channel video multiplexers. In display mode, each multiplexer shall be capable of displaying a minimum of a full screen from one (1) selected source, a quad display, a 3 x 3 matrix display or 16-32 camera pictures. Display shall support a 16-32 character camera title. In DVR, the encode mode shall allow recording of up to 16-32 cameras on a single DVR, the decode mode shall allow playback of multiple recorded camera video in any of the “display modes.” Video multiplexer shall permit for “live” viewing full-screen or multi-screen formats while operating in the encode mode at the same time. Multiplexer shall operate on a 120 VAC power supply. The multiplexer shall be manufactured by:

1. GYYR – DS16C or equal.
2. Genex – Series Multiplex color, simplex 9/16 Video Input (2) or equal.

R. CONTROL DISTRIBUTION UNIT

Contractor shall furnish the quantity of control distribution units required. Control distribution units shall provide independent communication line between master control panel and cameras. The distribution unit shall contain circuitry for surge protection of the communication lines. Control distribution units shall be manufactured by:

1. VICON V1400X-IDL or equal.
2. PELCO – CM6800 Series or equal.

S. MATRIX CARD CAGE

The Matrix Card Cage shall contain the rack, one (1) line cord, and a plug-in power supply. The Matrix Card Cage shall be designed to accommodate up to fifteen (15) 1" modules. The unit shall require 120 VAC at 60 Hz for operation. The unit shall mount in a standard 19" EIA rack, and/or UL 55053 (19" x 8' STD rack). Furnish all necessary enclosure panels as specified.

T. TIME LAPSE DIGITAL VIDEO RECORDERS WITH TIME/DATE GENERATOR

1. Furnish one (1) digital video recorder (DVR). Each digital DVR shall be based on a digital recording system. The digital DVR shall have the following characteristics:
  - a. Record up to sixty (60) days on one (1) digital recorder.
  - b. Field advance on field at a time, forward, and reverse.
  - c. Select azimuth playback.
  - d. Reverse play, fast scan, and freeze field.
  - e. Four hundred (400) lines of horizontal resolution for black and white (real time).
  - f. One (1) short recording with repeater.
  - g. Electronic security lockout.
  - h. Six (6) events per day – seven (7) days a week time.
  - i. Camera switcher pulse – programmable.
  - j. System code.
  - k. Alarm index search.
  - l. Programmable timer output.
  - m. Sixty (60) day memory backup.
2. Furnish each video recorder with a time/date generator. Furnish each time/date generator with the following features:
  - a. Display: Three (3) lines.
  - b. Format: Twelve (12) hour (a.m./p.m.) or twenty-four (24) hour clock.
  - c. Battery Back-Up Time: Twenty-four (24) hours.
  - d. Character Height: Fourteen (14) scan lines.
  - e. Character Position: Adjustable top to bottom; left to right.
3. The units shall mount in a standard 19" EIA rack or equal.

4. The time lapse recorder shall be as manufactured by:
  - a. GYYR TLC2100.
  - b. PELCO-DX9000 Series Digital Video Recorder.
  - c. ASCENDENT X16120 Digital Recorder.
  - d. Or equal.

U. MONITORS

Provide two (2) 21" high-resolution color video flat panel monitor and one (1) 32" Plasma LCD T.V. Monitor or equal.

Each monitor shall be designed for composite video signal (0.5 – 2V p-p, 75 OHM, and shall have a resolution of 1,000 T.V. lines at center. Geometric distortion shall be limited to 3%. Controls shall include on/off power, horizontal centering, vertical centering, brightness, contract, vertical size, VTR switch and A/B switch. Input power shall be 105-128V, 60 Hz. The monitor shall have a metal enclosure for reduced radio-frequency (FR) interference. Provide rack mounting kit for each video monitor.

Monitors shall be as manufactured by:

1. PELCO PMAC21A – 21" Color Monitor, High Resolution or equal
2. SONY PFM32C1 – 32" High Resolution Flat Panel LCD T.V. or equal

V. WIRE AND CABLE

1. The CCTV system shall be furnished with all necessary wire, cables, and connectors required to ensure the system is fully operational.
2. Wiring for the Closed Circuit Television System shall be LAN-wire, 10-100 MHz, fiber optic of the type and number of fibers, as specified or equal.

W. COAX CABLE

1. Provide coax cables or equal with pure copper center conductor having a low DC resistance for effective CCTV operation. Use only crimp – type BNC connectors.
2. Manufacturers
  - a. Belden (Copper Industries) or equal
    - (1) RG-11/u: Type No. 8213 (fourteen (14) solid bare copper).
    - (2) RG-6u: Type No. 9248 (eighteen (18) solid bare copper).

(3) RG-59/u: Type No. 8281 (twenty (20) solid bare copper).

(4) RG-59/u: Type No. 9259, 9659 (twenty-two (22) stranded bare copper).

b. West Pen or equal

(1) RG-11/u: Type No. 811, 4811 (fourteen (14) solid bare copper).

(2) RG-6u: Type No. 806, 4806 (eighteen (18) solid bare copper).

(3) RG-59/u: Type No. 815 (solid bare copper).

(4) RG-59/u: Type No. 816 (twenty-two (22) stranded bare copper).

## X. FIBER OPTIC CABLES

### 1. Manufacturers

a. Chromatic Technologies, Inc., Franklin, MA

b. Belden (Cooper Industries), Richmond, IN

c. Siecor Corp., Hickory, NC

d. AT&T Network Systems, Norcross, GA

e. A.P.D., Inc., Brooklyn, CT

f. Or equal

### 2. General

Provide multi-mode, buffered, optical glass fiber cores compatible with LED based transmission systems. Maximum attenuation losses shall be 3.5 dB/km or less at a wavelength of 850 nm and 1.5 dB/km at 850 nm and 500 MHz-km at 1300 nm. Fiber core size shall be 62.5 micron unless otherwise directed by CCTV system Vendor. All plastic fiber core construction shall not be acceptable.

3. Armor Jacketed Multi-Fiber Cable

- a. Heavy duty, gel-filled, loose tube construction with dielectric central member, polyethylene inner jacket, steel tape armor, and a medium density, oil, water, and chemical resistant, UV stabilized polyethylene outer jacket, suitable for duct installation. Fiber cladding shall be 125 micron and fiber coating shall be 250 micron.
- b. Cable Specifications
  - (1) Fiber Count: 24
  - (2) Installation Load: 600 lbs. (maximum).
  - (3) Minimum Crush Resistance: 200 lbs. per inch.
  - (4) Operating Temperature: -40°C to +70°C.
  - (5) Outside diameter: 0.50 (maximum).

Y. FIBER OPTIC TERMINAL CONNECTORS

- 1. Fiber Optic Terminal Connectors shall be provided by the following manufacturers
  - a. 3M Telecom Systems Group, Austin Texas
  - b. AMP, Inc., Harrisburg, PA
  - c. AT&T Network Systems, Norcross, GA
  - d. A.P.D. Inc., Brooklyn, CT
  - e. Or equal
- 2. Connectors

Shall be Type ST compatible design with ceramic ferrule and strain relief boot. The epoxy used to attach connectors to the individual fibers shall be a heat cure type featuring an accelerated cure cycle and color change upon cure completion. Connector specifications shall be as follows:

- a. Insertion loss (typical): 0.5 dB.
- b. Durability (mating cycles): 1,000 (minimum).
- c. Repeatability: Less than 0.2 dB.
- d. Operating Temperature: -40°C to +80°C.

Z. PATCH PANELS

1. Manufacturers

- a. Siecor Corp., Hickory, NC
- b. 3M Telecom Systems Group, Austin, TX
- c. AT&T Network Systems, Norcross, GA
- d. Or equal

2. Patch Panels

Shall be suitable for wall mounting, comprised of internal mounting plate, slack cable take up/organizer blocks, patch block with connectors, and ground lugs as indicated. Panels shall be NEMA 12 construction. Patch panels shall be suitable for multimode system operation at 800 and 1,300 nanometers.

AA. SPLICE CLOSURES

1. Manufactures

- a. Siecor Corp, Hickory, NC
- b. 3M Telecom Systems Group, Austin, TX
- c. AT&T Network Systems, Norcross, GA
- d. Or equal

2. Splice Closures

Shall be constructed of thermoplastic, suitable for “butt” or “through” cable entry, moisture tight sealing arrangement, removable splice tray organizer, splice trays for mechanical splices, suitable for multimode system operation at 800 and 1,300 nanometers, grounding lugs or equivalent for grounding cable armor.



BB. MASTER CONTROL PANEL

1. The Master Control Panel shall be a microprocessor based system capable of programming and operating CCTV system. The Master Control Panels shall be capable of controlling up to thirty-two (32) cameras, with remote stations. Location for this Master Control Panel shall be in the second floor of the Main Building at PS2, new MCC Room, and southwest corner.
2. The Master Control Panel shall be included as a minimum of the following functions:
  - a. Polling remote control panels for command and camera selection input.
  - b. Routing operator commands to correct control receiver.
  - c. Desk mounted remote control unit for the cameras shall be controlled automatic and or reset by the Pump Station Operator at any time. Control shall include power, pan and tilt, zoom, and speed for the cameras.
  - d. Implement commands.
  - e. Setting system parameters.
  - f. Non-volatile storage of camera sequence and camera selection data.
  - g. Selection of data transfer.
  - h. Priority lockout.
  - i. Camera/monitor access assignment.
  - j. Video switching or sequencing up to thirty-two (32) cameras.
3. The Pump Station Operator shall have the following control features:
  - a. Numeric Display

The Numeric Display shall be able to display the numeric indicator for the current camera selected for viewing. The display shall give a busy indication whenever the camera and/or is being selected and under the control of another control panel located at COMC or at the Pump Station.

b. Numeric Keypad

The Numeric Keypad shall be used to program the Master and Remote Control Panels for the following functions:

- (1) Camera Selection.
- (2) Monitor Selection.
- (3) Sequence Programming.
- (4) Record sequence events.

c. Camera Power Switch

Camera Power Lamp shall indicate that power is supplied to the selected camera by a LED on the Control Panel.

d. Manual/Auto Iris Switch

Manual/Auto Iris Switch shall select mode of operation for the Iris and the adjacent Iris Open and Closed Switch shall operate the Iris in the manual mode.

e. Zoom/Focus Control

The Zoom Lens Momentary Toggle Switch shall activate the selected lens to zoom in and out. The speed, fast or normal, at which the lens operates, shall be selected by the Zoom Speed Switch. Adjusting minor focus variances shall be performed with the adjacent Focus Momentary Toggle Switch.

f. Reset Control

The Reset Switch shall clear the microprocessor and restart normal pre-programmed operation.

g. Joy Stick

The joy stick shall be utilized to adjust the addressed camera pan/tilt location to any position through a full 360°. The joy stick activates the panning (right/left) and/or tilting (up/down) action by pressing in the direction indicated by the arrows on the front panel display.

- h. A communication error shall result in a lamp glowing indicating improper communication to the selected camera control receiver.
- i. System configuration shall be maintained in non-volatile memory. In the event of a power loss or a microprocessor reset, the system shall not require reprogramming.
- j. The Master Control Panel shall be provided with a preset panel to allow control of up to twenty-three (23) preset positions per camera. This unit will provide push buttons for operator call-up and programming in the field.
- k. Furnish one (1) Master Control Panel in Control Room of Pump Station No. 2 Plant Operations Building with two (2) RS-232 communications ports.
- l. The Master Control Panel shall be as manufactured by STANDARD UL-55053-x15 RACK or equal.

CC. INSTALLATION

1. General

Products and equipment shall be installed in accordance with the Manufacturer's written installation instructions and the following:

- a. CCTV products shall be adequately ventilated and securely anchored.
- b. Raceway shall be installed.
- c. Conductor terminations at screw terminals shall be accomplished with hooked, spade lugs. Shielding shall be continuous and shall be grounded at the monitor which shall be frame grounded. Wiring shall be cabled within enclosures and banded neatly to terminals.
- d. Unit shall be mounted to maximize coverage of the main entrance area. Wiring throughout the system shall be identified in accordance with shop drawings; identification shall be applied at all terminations and access fittings. Connections to monitor shall be waterproof and flexible and shall be accomplished with cable connectors.
- e. Confirm camera viewing ability is unobstructed by buildings, or process components, or equipment.
- f. Modify existing conduit system and make additions including all supports, fittings, and equipment as required for a complete and functional system.

g. Fiber Optic Cables

- (1) Install cables in the raceway systems as indicated. Inspect raceways prior to pulling in cables. Notify the Construction Manager of any conditions which would prevent installation of the specified cables, before proceeding with the installation.
- (2) Install armor jacketed multi-fiber cables in underground ducts. Rod and swab out ducts prior to installing cables.
- (3) Install non-breakout cables in the conduit systems provided inside buildings and structures, and as indicated.
- (4) Lubricate cables with lubricants specially formulated for fiber cabling jackets during installation. Do not exceed cable Manufacturer's specifications for tensile strength and bending radius. All pulleys used to aid in the installation of the fiber optic cable must be sized according to the minimum bending radius. The pulling tension of all fiber cables during installations shall be recorded using a strip recorder. The printout of the strip recorder shall be submitted to the Construction Manager.
- (5) Provide breakout kits, splice closures, patch panels, pigtails, and jumpers as required and as indicated to install a complete communications network as indicated. Patch panels shall be wall mounted plumb and level. Splice closures shall be installed in pull boxes as indicated.
- (6) Splices: Splices shall be made only where indicated. Provide adequate put-up lengths on cable reels to make termination-to-termination runs without splices. Where splices are indicated, provide mechanical splices with attenuation losses of 0.3 dB or less. Make splices watertight and provide mechanical protection equal to the cable jacket, or better.
- (7) Support cables in riser conduits at intervals as required by the National Electrical Code and Local and State Codes.
- (8) Installation tools and materials shall be approved by the cable Manufacturer.
- (9) The polishing process of terminal connectors shall be a two stage wet process using 3.0 micron lapping film for an initial polish followed by 0.3 micron lapping film for the final polish.
- (10) Visually, inspect terminal connectors for out-of-round condition and surface defects as micro-chips and cracks using a 100X (minimum) inspection microscope.

DD. IDENTIFICATION

1. Label each termination point.
2. Tag each cable at all terminals in junction boxes and every 20'-0" in cable trays. Provide permanent nylon/plastic tie-wrap type tags with waterproof markings.

EE. PHYSICAL CHECKOUT FIELD AND FUNCTIONAL TESTING

1. Inspection Procedures

- a. Contractor shall physically inspect equipment and equipment rack in Operations Building to verify the following:
  - (1) Video monitors installed and wired.
  - (2) Video recorders installed and wired.
  - (3) Master control panel, matrix switcher, fiber optic links, and other specified hardware are installed and wired.
  - (4) Cables installed terminated and identified.
  - (5) 120 VAC power available at console.
  - (6) Equipment identification nameplates installed.
- b. Contractor shall physically inspect each outdoor wall camera installation to verify the following:
  - (1) Camera and lens housing pressurized with dry nitrogen as recommended by Manufacturer.
  - (2) Receiver/driver control panel, cable installed link, and camera power transformer are installed and wired.
  - (3) The correct camera, lens, pan/tilt unit, and mounting hardware have been installed where indicated.
  - (4) Camera viewing ability is unobstructed by building or process components/equipment.
  - (5) Fiber optic cables installed terminated and identified.
  - (6) 120 VAC power available.
  - (7) Equipment identification nameplates installed.

- c. Contractor shall physically inspect each indoor camera installation to verify the following:
  - (1) The correct camera, lens, enclosure, pan/tilt/zoom unit, and mounting hardware have been installed where indicated.
  - (2) Camera viewing ability is unobstructed by building or process components/equipment.
  - (3) Receiver/driver control panel, fiber optic link, and camera power transformer installed and wired.
  - (4) Fiber optic cables installed terminated and identified.
  - (5) 120 VAC power available.
  - (6) Equipment identification nameplates installed.
  - (7) Camera and lens housing pressurized with dry nitrogen as recommended by Manufacturer.
2. Verify that fiber optic cable reels have been off-loaded from truck carefully and not damaged.
3. Verify that the optical fibers of the cable assembly are the type and quantity as specified or as recommended by the Closed Circuit Television System Supplier.
4. Verify that cable construction is the type specified.
5. Verify that fiber optic patch panels have been installed plumb and level.
6. Verify that fiber optic (Optional) splice closures have been installed.
7. Verify that optical fiber connections or terminations within patch panels and splice closures are in accordance with cable Manufacturer's recommendations.
8. Verify that closed circuit television (CCTV) system and accessories are complete and functional.

FF. WARANTY

The Contractor shall warrant the completed CCTV System wiring, equipment, labor, taxes, and conduit. Supervision shall be provided by the Contractor. Equipment is to be free from inherent mechanical and electrical defects for a period of two (2) years from the date of acceptance by the City. Contractor shall submit a copy of warranty prior to City's acceptance of CCTV System.

### BIDDER'S REFERENCES

The Bidder is **required** to provide a minimum of three (3) references where work of a similar size and nature was performed within the past three (3) years. This will enable the City of San Diego to judge the responsibility, experience, skill, and business standing of the Bidder.

#### REFERENCES

Company Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
\_\_\_\_\_ Fax Number: \_\_\_\_\_  
Dollar Value of Contract: \$ \_\_\_\_\_ Contract Dates: \_\_\_\_\_  
Requirements of Contract: \_\_\_\_\_  
\_\_\_\_\_

---

Company Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
\_\_\_\_\_ Fax Number: \_\_\_\_\_  
Dollar Value of Contract: \$ \_\_\_\_\_ Contract Dates: \_\_\_\_\_  
Requirements of Contract: \_\_\_\_\_  
\_\_\_\_\_

---

Company Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
\_\_\_\_\_ Fax Number: \_\_\_\_\_  
Dollar Value of Contract: \$ \_\_\_\_\_ Contract Dates: \_\_\_\_\_  
Requirements of Contract: \_\_\_\_\_  
\_\_\_\_\_

### BIDDER'S STATEMENT OF SUBCONTRACTORS

The Bidder is **required** to state below all subcontractors to be used in the performance of the proposed contract, and what portion of work will be assigned to each Subcontractor. Failure to provide details of Subcontractors may be grounds for rejection of bid. **NOTE:** Add additional pages if necessary.

Company Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_

\_\_\_\_\_ Fax Number: \_\_\_\_\_

Dollar amount of sub-contract: \$ \_\_\_\_\_ Contract Dates: \_\_\_\_\_

Contractor's License #: \_\_\_\_\_

Requirements of contract: \_\_\_\_\_

What portion of work will be assigned to this subcontractor: \_\_\_\_\_

---

---

Company Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_

\_\_\_\_\_ Fax Number: \_\_\_\_\_

Dollar amount of sub-contract: \$ \_\_\_\_\_ Contract Dates: \_\_\_\_\_

Contractor's License #: \_\_\_\_\_

Requirements of contract: \_\_\_\_\_

What portion of work will be assigned to this subcontractor: \_\_\_\_\_

---

---

Company Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone Number: \_\_\_\_\_

\_\_\_\_\_ Fax Number: \_\_\_\_\_

Dollar amount of sub-contract: \$ \_\_\_\_\_ Contract Dates: \_\_\_\_\_

Contractor's License #: \_\_\_\_\_

Requirements of contract: \_\_\_\_\_

What portion of work will be assigned to this subcontractor: \_\_\_\_\_



## BIDDER'S STATEMENT OF AVAILABLE EQUIPMENT

The Bidder is **required** to list all necessary equipment to complete the work as specified. The Bidder shall state below the motive, industrial, construction and other equipment which Bidder has or will have available to perform the work under this contract prior to the commencement of the contract. The City of San Diego reserves the right to reject any bid when, in its opinion, the Bidder has not demonstrated they will be properly equipped to perform the work in an efficient, effective manner for the duration of the contract period. In instances where required equipment is not presently owned, the Bidder shall explain how the equipment will be made available prior to commencement of work.

**NOTE:** Add additional pages if necessary.

### Equipment:

Equipment Description: \_\_\_\_\_

Owned ☐ Rented ☐ Other ☐ (explain below)

If Owned, Quantity Available: \_\_\_\_\_

Year, Make & Model: \_\_\_\_\_

Explanation: \_\_\_\_\_

■ \_\_\_\_\_ ■

Equipment Description: \_\_\_\_\_

Owned ☐ Rented ☐ Other ☐ (explain below)

If Owned, Quantity Available: \_\_\_\_\_

Year, Make & Model: \_\_\_\_\_

Explanation: \_\_\_\_\_

■ \_\_\_\_\_ ■

Equipment Description: \_\_\_\_\_

Owned ☐ Rented ☐ Other ☐ (explain below)

If Owned, Quantity Available: \_\_\_\_\_

Year, Make & Model: \_\_\_\_\_

Explanation: \_\_\_\_\_

**BIDDER'S STATEMENT OF FINANCIAL RESPONSIBILITY**

The Bidder is required to furnish below a statement of financial responsibility, except when the bidder has previously completed contracts with the City of San Diego covering work of similar scope.

I, \_\_\_\_\_, certify that my company, \_\_\_\_\_, has sufficient operating capital and/or financial reserves to properly fund the services identified in these contract specifications for a minimum of two (2) full months. I agree that upon notification of provisional award, I will promptly provide a copy of my company's most recent balance sheet, or other necessary financial statements, as supporting documentation for this statement, if requested. I understand that this balance sheet, as well as any other required financial records, will remain confidential information to the extent allowed under the California Public Records Act.

I certify under penalty of perjury under the laws of the State of California that the information contained in this statement is true and correct.

Dated: \_\_\_\_\_ Signature: \_\_\_\_\_

## Certification Survey

For Small, Ethnically and Culturally Diverse,  
Woman, Disadvantaged, Disabled Veteran, Or Other Businesses

All Contractors are required to complete this form and return it with their bid package.

Company Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Telephone No.: (\_\_\_\_\_) \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

1. Contractor's company is **currently** certified as small, ethnically and culturally diverse, woman, disadvantaged, disabled veteran, or other business? ☐ Yes ☐ No

Certification Number/Agency: \_\_\_\_\_

2. Contractor's company has applied for certification? ☐ Yes ☐ No

If yes, which agency? \_\_\_\_\_

3. Contractor's company is an independently owned business? ☐ Yes ☐ No

4. Contractor's company is 51% or more owned by a socially, economically, disadvantaged individual\*? ☐ Yes ☐ No

5. SIC Code: \_\_\_\_\_ NAICS: \_\_\_\_\_

6. Number of Employees: \_\_\_\_\_

7. Annual Gross Receipts (three year average): \_\_\_\_\_

8. This is not an application for certification. If you would like to receive an application for certification, please check box: ☐

I certify that this information is correct: \_\_\_\_\_

Authorized Signature

(Date)

\* Black Americans, Native Americans, Hispanic Americans, Asian-Pacific Americans, Subcontinent Asian Americans, Women, any additional groups whose members are designated as socially and economically disadvantaged by the Small Business Administration (SBA) at such time as the SBA designation becomes effective.